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JP 2000 - 261483 Network Monitoring System

【Claim 1】 A network surveillance system for watching for illegal access from an outside network to an internal information network which is connected to the outside network by way of a router, the network surveillance system comprising:

a traffic surveillance apparatus, which watches an inflow traffic of packets from the outside network by way of the router, and upon detection of a packet illegally accessing the internal information network, transmits a control packet indicating an identification information of the illegal packet to the router device; and

a false server, which responds to a packet received, and transmits a response packet including intentional information to a transmitting source of the packet received ,

wherein the router is provided with means for responding to the control packet received from the surveillance apparatus and storing the identification information of the illegal packet, and wherein the router identifies the illegal packet based on the identification information from among packets received from the outside network, and transfers it to the false server.

Nikkei Communications 9/20, 1999,
Feature 94, "Security Measures Handled by Specialists"

①FIG. 1-3 THERE ARE THREE TYPES OF FIREWALL MANAGEMENT REPRESENTATIVE SERVICES: "HOSTING TYPE" IN WHICH FIREWALL IS INSTALLED IN A PROVIDER'S FACILITY AND AN OPERATOR CONTROLS IT FOR MANAGEMENT AND SURVEILLANCE, "REMOTE CONTROL MANAGEMENT TYPE" WHICH IS A VARIATION OF THE "HOSTING TYPE" AND IN WHICH AN OPERATOR CONTROLS IT FROM A DISTANCE FOR MANAGEMENT AND SURVEILLANCE, AND "ECONOMY TYPE" IN WHICH A LOW COST MACHINE DESIGNED FOR FIREWALL IS CONTROLLED FROM A DISTANCE FOR MANAGEMENT AND SURVEILLANCE.

②FIREWALL DESIGNED FOR USER IS INSTALLED IN THE NOC OR MANAGEMENT CENTER OF A PROVIDER, AND CONTROLLED BY AN OPERATOR FOR MANAGEMENT AND SURVEILLANCE.

- SERVICE CHARGES BECOME HIGHER WITH INDIVIDUAL USER-ORIENTED SERVICES

- CUSTOMIZATION BECOMES HIGH ACCORDINGLY. USED IN MANY CASES WITH THE HOSTING OF A WWW SERVER MAIL SERVER.

③AN OPERATOR CONTROLS FIREWALL INSTALLED ON THE USER SIDE FROM A DISTANCE FOR MANAGEMENT AND SURVEILLANCE.

- A VARIATION OF THE HOSTING TYPE, AND USED IN THE CASE OF NO FIREWALL INSTALLABLE ON THE PROVIDER SIDE.

- BECAUSE OF REMOTE CONTROLLED MANAGEMENT FAULT HANDLING IS DONE LATER THAN THAT OF THE HOSTING TYPE

④A SURVEILLANCE SERVER CONTROLS FIREWALL INSTALLED ON THE USER SIDE FROM A DISTANCE FOR MANAGEMENT AND SURVEILLANCE

- PRICE IS LOWERED WITH STYLIZED MANAGEMENT AND STAFFS SLASHED.

- USE LOW-COST MACHINE DESIGNED FOR FIREWALL.

- CUSTOMIZATION BECOMES LOW.

Feature 94, "Security Measures Handled by Specialists"

- Exploration of Practicability of Outsourcing -

Internet Firewall Security Checkup

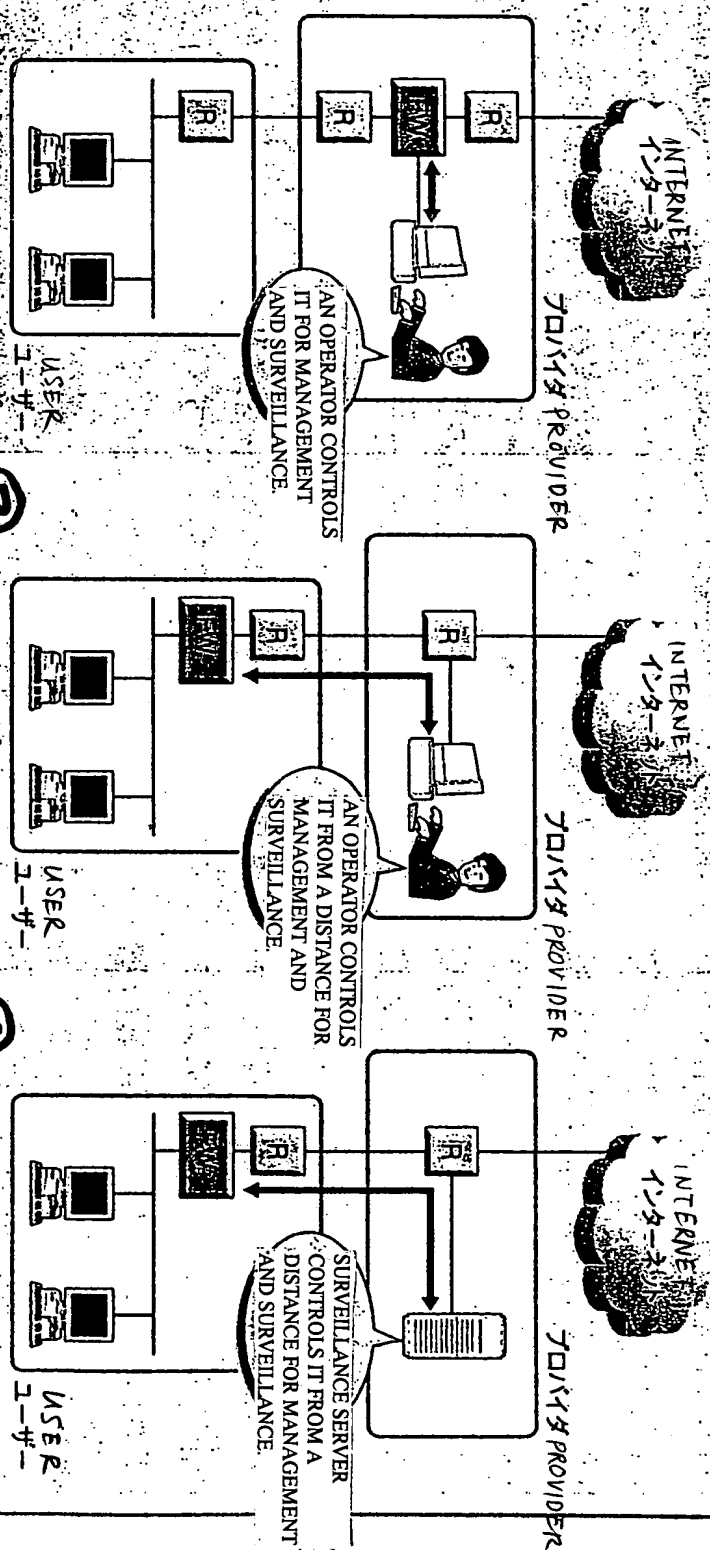
(*Nikkei Communications* 9/20, 1999)

In an economy-type management representative service, instead of a man checking but a surveillance server checks out such as illegal access automatically. The mechanism is that based on alert information received from a firewall, the surveillance server analyses a log and notifies the user of it.

See attached
①

図1-3 フライアウトール運用代行サービスは3タイプある。フライアウトールをプロバイダの設備に収容してオペレータが運用・監視する「ホスティング型」、その変形版で遠隔地からオペレータが運用・監視する「リモート運用型」、および安価なフライアウトール専用機を監視サーバーで遠隔地から運用・監視する「エコノミー型」がある。

HOSTING TYPE	REMOTE MANAGEMENT TYPE	ECONOMY TYPE
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① ユーザー専用のフライアウトールをプロバイダのNOCや運用管理センター内に設置し、オペレータが運用・監視する。

- ユーザーごとの個別対応的な要素が強く、利用料金は高めになる。
- その分カスタマイズ性は高い。
- WWWサーバーやメールサーバーのホスティングと併用するケースも多い。

② ユーザー側に設置したフライアウトールを、オペレータが遠隔地から運用・監視する。

- ホスティング型の変形版で、プロバイダ側にフライアウトールを置けない場合に利用する。
- 遠隔地からの運用になるため、障害発生時の対応はホスティング型より遅くなる。

③ ユーザー側に設置したフライアウトールを、監視サーバーが遠隔地から運用・監視する。

- 運用を定型化し、人手を減らして低価格化。
- 安価なフライアウトール専用機を利用する。
- カスタマイズ性は低い。

OUTLINE
FEATURES

- 概要
- 特徴
- 月額利用料金
- サービスの規模
- サービスチャージ率
PER MONTH
- SIZE OF THE USER

300,000-1,000,000 OR MORE
MEDIUM-LARGE (MAINLY 500-1000)

150,000-1,000,000 OR MORE
MEDIUM-LARGE (MAINLY 500-1000)

AROUND 50,000-60,000
SMALL-MEDIUM (ABOUT UP TO 500)

NOC: ネットワークオペレーションセンター
FW: フライアウトール
R: ルーター
ROUTER

See attached
②
③
④